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PTO/SB/30 (01-03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**Request
For
Continued Examination (RCE)
Transmittal**

Address to:
Commissioner for Patents
Box RCE
Washington, DC 20231

Application Number	09/853,190
Filing Date	5-11-2001
First Named Inventor	Tawassul A. Khan
Art Unit	2862
Examiner Name	Toan M. Le
Attorney Docket Number	

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. Submission required under 37 CFR 1.114

- a. ☐ Previously submitted
- i. ☐ Consider the amendment(s)/reply under 37 CFR 1.116 previously filed on _____
(Any unentered amendment(s) referred to above will be entered).
- ii. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- iii. ☐ Other _____
- b. ☒ Enclosed
- i. ☒ Amendment/Reply
- ii. ☐ Affidavit(s)/Declaration(s)
- iii. ☐ Information Disclosure Statement (IDS)
- iv. ☐ Other _____

2. Miscellaneous

- a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)
- b. ☐ Other _____

3. Fees

- The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
The Director is hereby authorized to charge the following fees, or credit any overpayments, to
- a. ☐ Deposit Account No. _____
- i. ☐ RCE fee required under 37 CFR 1.17(e)
- ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)
- iii. ☐ Other _____
- b. ☐ Check in the amount of \$ _____ enclosed
- c. ☒ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED	
Name (Print/Type) <i>Sofia K. McGuire</i>	Registration No. (Attorney/Agent)
Signature <i>Sofia K. McGuire</i>	Date <i>5-13-03</i>
CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner For Patents, Box RCE, Washington, DC 20231, or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.	
Name (Print/Type) <i>Sofia K. McGuire</i>	VIA FAX
Signature <i>Sofia K. McGuire</i>	Date <i>5-13-03</i>

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Box RCE, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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TECHNOLOGY CENTER

PTO/SB/17 (01-03)
Approved for use through 04/30/2003. OMB 0851-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) **375.00**

Complete if Known

Application Number **09/853,190**
Filing Date **5-11-01**
First Named Inventor **Tawassul A. Khan**
Examiner Name **Toan M. Le**
Art Unit **2862**
Attorney Docket No.

METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit Account Number
Deposit Account Name

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments
☐ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee	
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$) **0**

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims -20** = X =
Independent Claims -3** = X =
Multiple Dependent =

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1202 18	2202 9	Claims in excess of 20	
1201 84	2201 42	Independent claims in excess of 3	
1203 280	2203 140	Multiple dependent claim, if not paid	
1204 84	2204 42	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$) **0**

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	375
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) **375**

SUBMITTED BY

Name (Print/Type) **Sofia K. McGuire**
Signature **Sofia K. McGuire**

Registration No.
(Attorney/Agent)

(Complete if applicable)

Telephone **713-942-7926**

Date **5-13-03**

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MAY 14 2003



TAWASSUL A. KHAN
C.E.O.

81B
T. Septor
5-22-03
NONLINEAR SEISMIC IMAGING, INC.

3200 Southwest Freeway • Suite 2340 • Houston, Texas 77027
713.552.2727 • Fax: 713.521.2873
email: tkhan@houston.rr.com

SENT VIA FACSIMILE 703/872-9318

September 18, 2002

Toan M. Le, Examiner
Box PATENT APPLICATION
Commissioner for Patents
Washington, DC 20231

RE: Application No. 09/853,190
Applicant Tawassul A. Khan (Inventor)
Titled - Mapping Permeable Reservoir Formations by Measuring the
Elastic Nonlinear Interactions of a Seismic Wave as it Propagates
through the Reservoir Rock Matrix and its Pore Fluids.

Dear Mr. Le:

Enclosed is the Reply to USPTO Office Action Summary of March 18, 2003 regarding Application No. 09/853,190.

We have enclosed the following items to better explain the side lobe phenomenon:

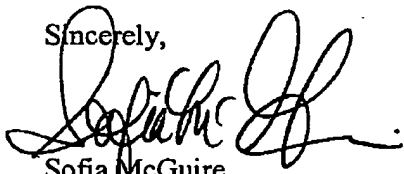
- Amended Claims
- An Example of Crosswell Data Showing Frequency Side-Lobes due to Permeability, including actual Test Results
- Transmittal Form
- Request for Continued Examination
- Fee Transmittal
- Credit Card Payment Form

If you would prefer to meet with us face to face, we are able to come to your office to explain the entire concept to clarify any question you may have regarding the claims and specification. We appreciate your suggestion of hiring a registered patent attorney; we

are not ignoring your recommendation. Financially, we cannot afford to hire an attorney at this time – Nonlinear Seismic Imaging, Inc. has no revenue currently.

Thank you for your consideration in this matter. Please do not hesitate to contact me at 713/942-7926 with any questions.

Sincerely,



Sofia McGuire

Enclosures

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REPLY TO PTO COMMUNICATION OF MARCH 18, 2003
RE: APPLICATION #09/853,190

The examiner again suggested in his communication of March 18, 2003, that applicant did not clearly define the device in the claims.

Applicant respectfully responds that the claims do not describe a device, but rather define a novel and unobvious method. The details are dependent on conditions, but would be known to those of ordinary skill in the art once the steps of the method are presented.

The claims are amended as follows in compliance with 37 CFR 1.121: PLEASE SEE ATTACHED.



TAWASSUL A. KHAN
C.E.O.

NONLINEAR SEISMIC IMAGING, INC.

3200 Southwest Freeway • Suite 2340 • Houston, Texas 77027
713.552.2727 • Fax: 713.521.2873
email: tkhan@houston.rr.com

2863

Sent Via Facsimile

Number of Pages: 15 including cover sheet

TO: Toan M. Le, EXAMINER
Company: US Patent and Trade Office
Fax Number: 703/872-9318

From: Sofia McGuire

Fax Number: 713/521-2873
Tel. Number: 713/552-2727

Date: 5/13/03 6:29:16 PM

RE: Application No. 09/853,190

REMARKS:

Please see attached based upon the USPTO Communication of March 18, 2003. If you have any questions concerning this transmission or the application, please contact me directly at 713/942-7926.

Thank you

Sincerely, Sofia McGuire

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PTO/SB/21 (03-03)

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	09/853,190
	Filing Date	5-11-2001
	First Named Inventor	Tawassul A. Khan
	Art Unit	2862
	Examiner Name	Toan M. Le
Total Number of Pages In This Submission	Attorney Docket Number	

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input checked="" type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	• An Example of Crosswell
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	Data Showing Frequency
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s)	Side-lobes due to Permeability
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	• Amended Claims
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		• Communication/Reply
		• RCE

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual	Sofia K. McGuire
Signature	<i>Sofia K. McGuire</i>
Date	

CERTIFICATE OF TRANSMISSION/MAILING	
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 5-14-03 via FAX	
Typed or printed	Sofia K. McGuire
Signature	<i>Sofia K. McGuire</i>
Date	5-13-03

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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